

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082219\  
 Data File : VD063729.D  
 Acq On : 22 Aug 2019 13:08  
 Operator : JC/SY  
 Sample : VD0822SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0822SBL01

Quant Time: Aug 23 07:08:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 1001686  | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1353985  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 1159901  | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 579314   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 546629   | 51.05 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.10% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 623341   | 54.66 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 109.32% |          |
| 50) Toluene-d8              | 10.41 | 98   | 1350218  | 53.86 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 107.72% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 605674   | 53.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.60% |          |

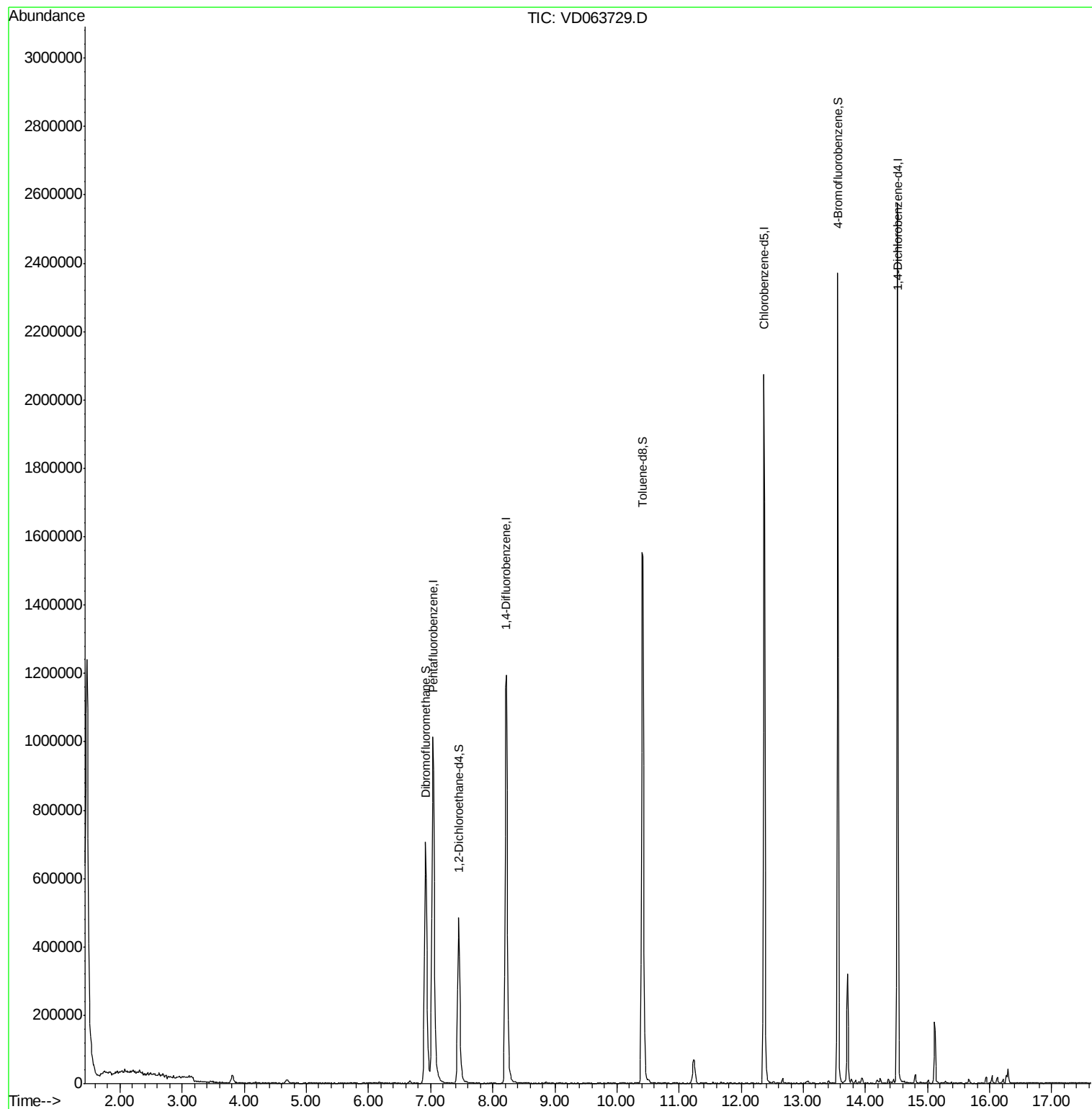
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

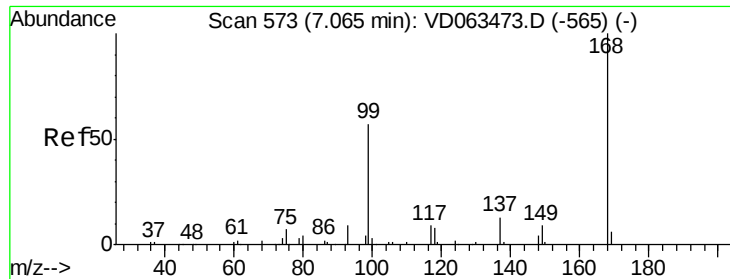
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Aug 10 06:42:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063729.D

Acq: 22 Aug 2019 13:08

Instrument :

MSVOA\_D

ClientSampleId :

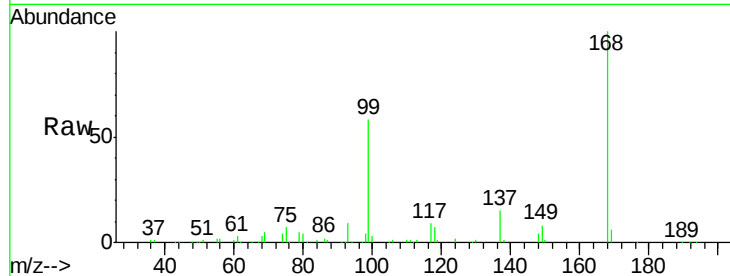
VD0822SBL01

Tot Ion:168 Resp: 1001686

Ion Ratio Lower Upper

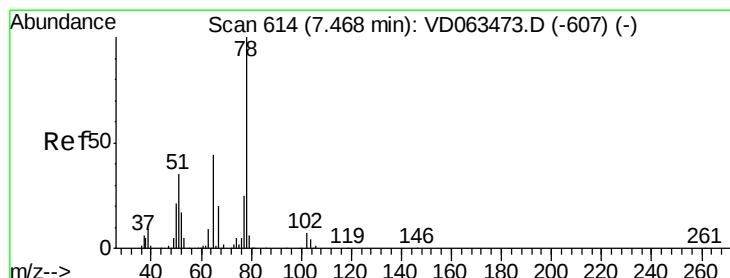
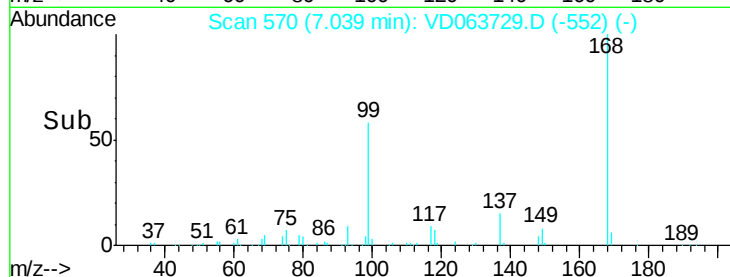
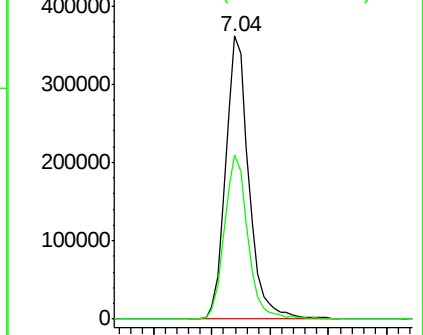
168 100

99 58.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 51.052 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063729.D

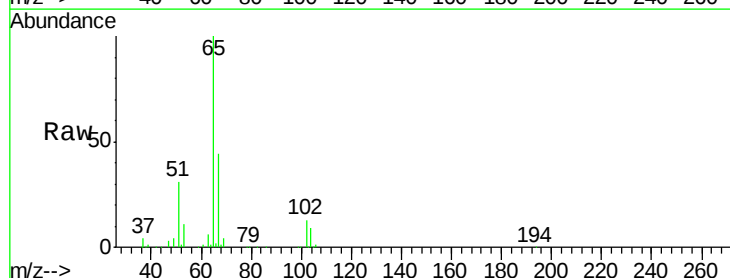
Acq: 22 Aug 2019 13:08

Tgt Ion: 65 Resp: 546629

Ion Ratio Lower Upper

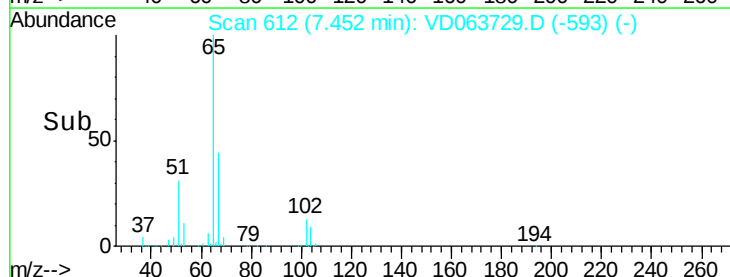
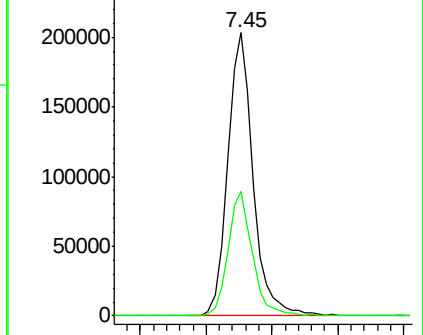
65 100

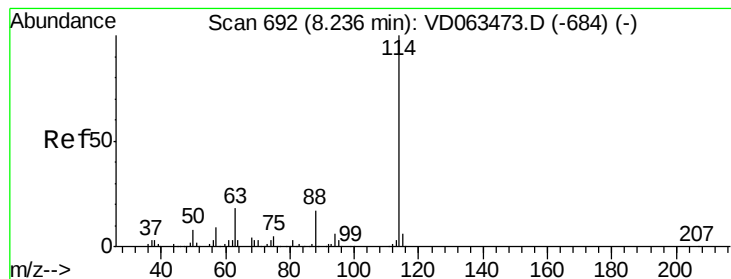
67 44.3 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063729.D

Acq: 22 Aug 2019 13:08

Instrument :

MSVOA\_D

ClientSampleId :

VD0822SBL01

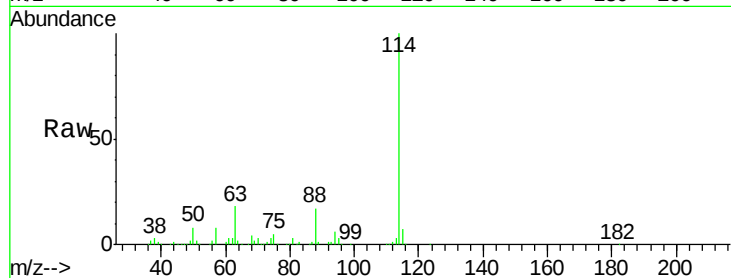
Tot Ion:114 Resp: 1353985

Ion Ratio Lower Upper

114 100

63 17.5 0.0 36.2

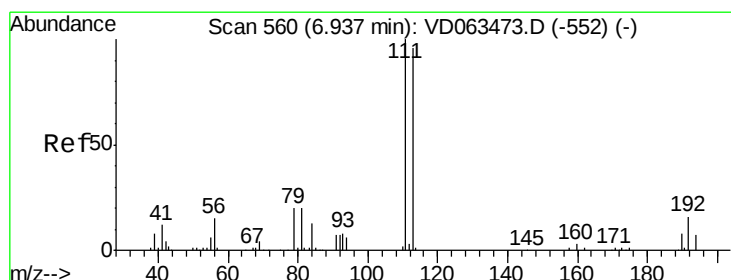
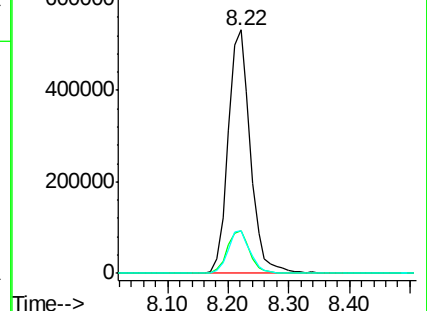
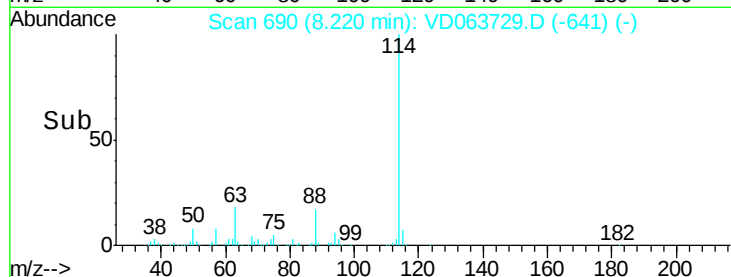
88 17.4 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 54.663 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063729.D

Acq: 22 Aug 2019 13:08

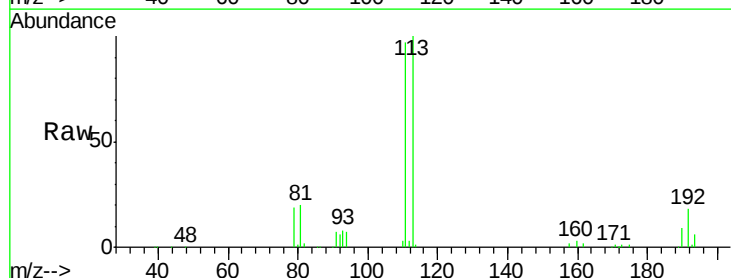
Tgt Ion:113 Resp: 623341

Ion Ratio Lower Upper

113 100

111 97.3 83.1 124.7

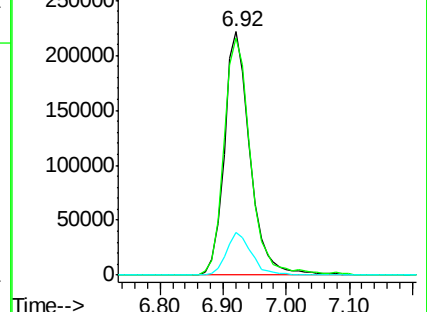
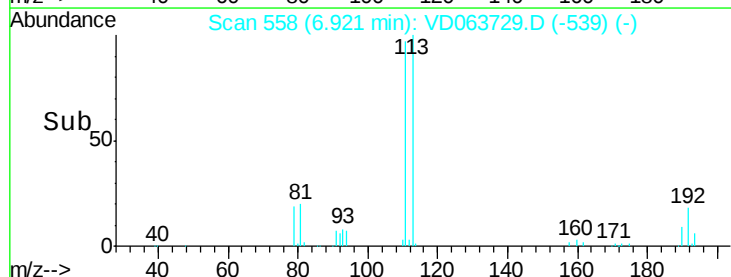
192 17.7 13.1 19.7

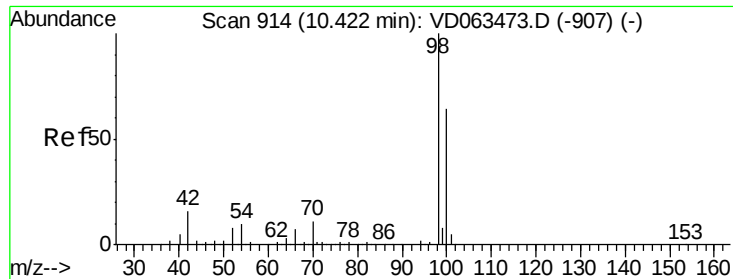


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

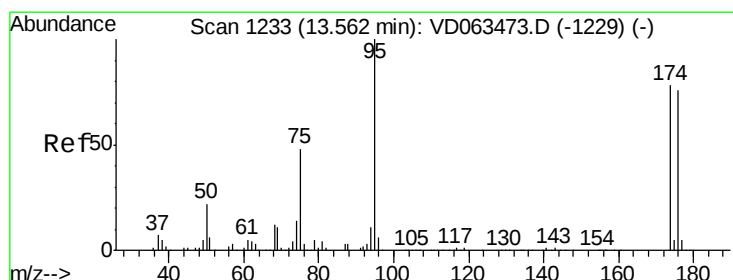
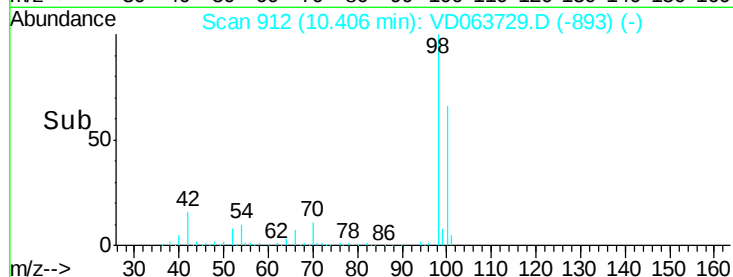
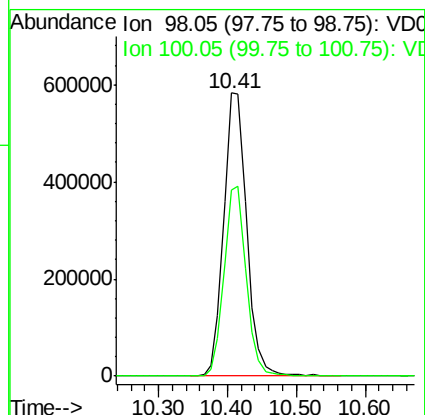
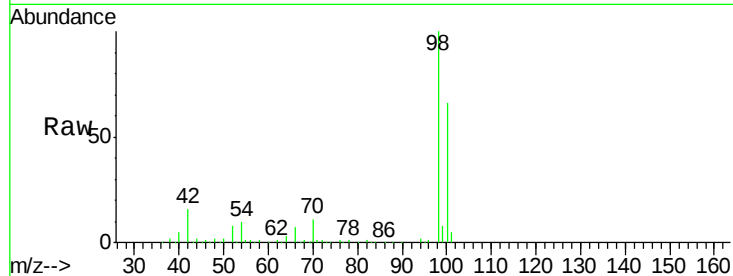




#50  
Toluene-d8  
Concen: 53.856 ug/l  
RT: 10.41 min Scan# 912  
Delta R.T. -0.02 min  
Lab File: VD063729.D  
Acq: 22 Aug 2019 13:08

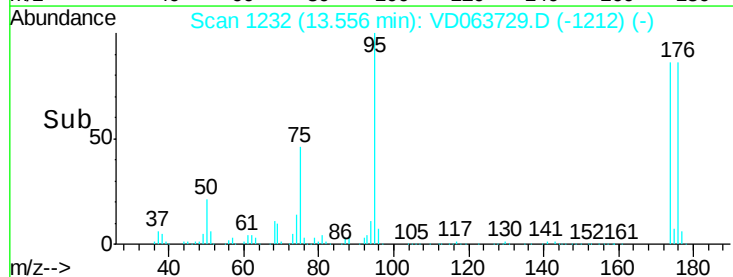
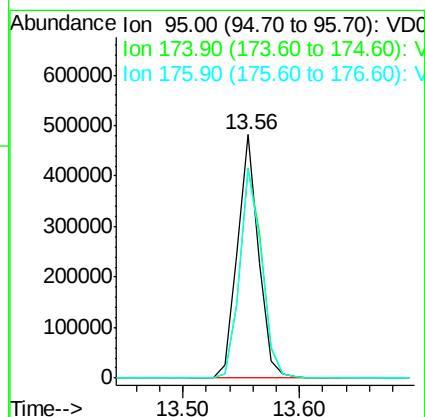
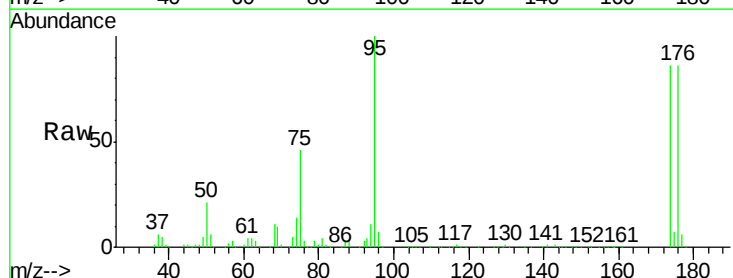
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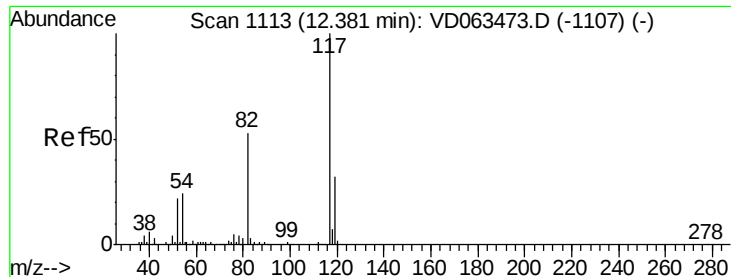
Tot Ion: 98 Resp: 1350218  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 53.302 ug/l  
RT: 13.56 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: VD063729.D  
Acq: 22 Aug 2019 13:08

Tgt Ion: 95 Resp: 605674  
Ion Ratio Lower Upper  
95 100  
174 86.2 0.0 155.4  
176 86.0 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VD063729.D

Acq: 22 Aug 2019 13:08

Instrument :

MSVOA\_D

ClientSampleId :

VD0822SBL01

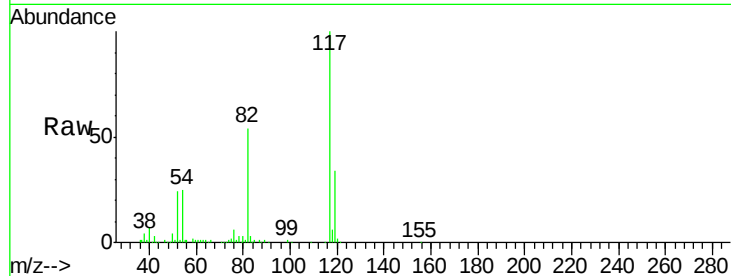
Tot Ion:117 Resp: 1159901

Ion Ratio Lower Upper

117 100

82 54.4 42.0 63.0

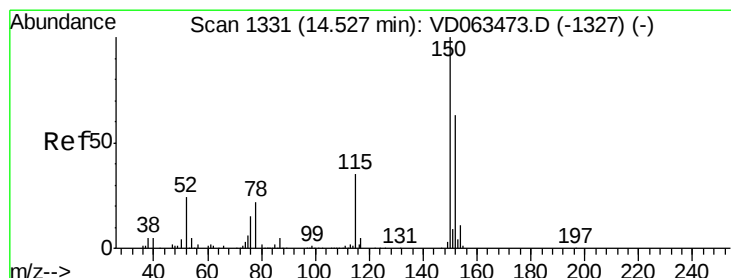
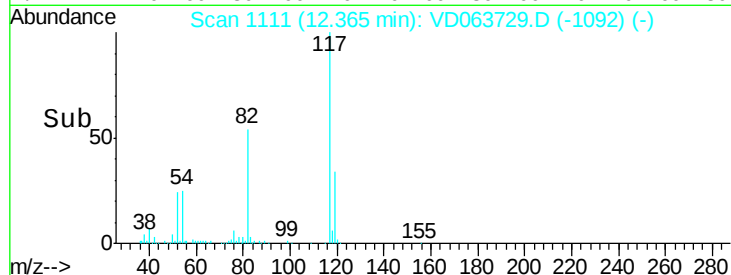
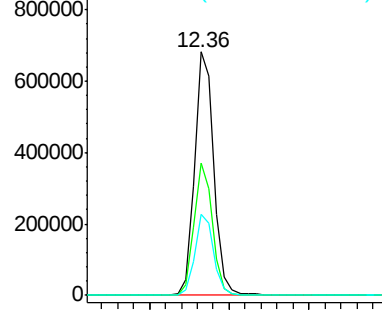
119 33.5 25.4 38.0



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063729.D

Acq: 22 Aug 2019 13:08

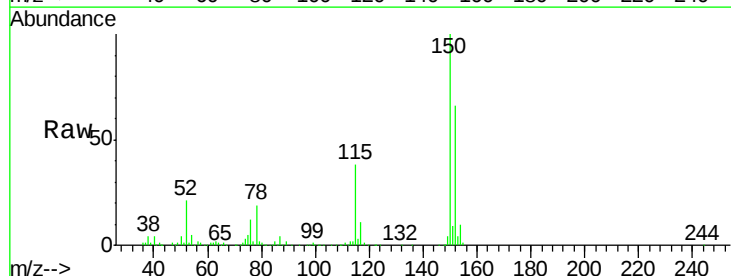
Tgt Ion:152 Resp: 579314

Ion Ratio Lower Upper

152 100

115 57.0 30.9 92.7

150 151.0 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V

